ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE

CARDIFF PORT SANITARY AUTHORITY,

FOR THE YEAR 1921.

Printed by Order of the Sanitary Authority.

CARDIFF:
S. GLOSSOP AND SONS, LTD., NEW STREET.

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Health and Port Sanitary Committee.

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,, O. C. PURNELL.
,, J. TROTT.

Medical Officer of Health's Department.

Medical Officer of Health:
RALPH M. F. PICKEN, M.B., Ch.B., B.Sc., D.P.H.

Assistant Medical Officer of Health:
H. SHEASBY, M.B., Ch.B., D.P.H.

Chief Inspector of Nuisances, Inspector under D. of A. Acts, Canal Boats Acts, and Unsound Food Regulations:
DAVID JENKINS, CERTIFICATE AND ASSOCIATE ROYAL SANITARY INSTITUTE.

Senior Assistant Inspector:
S. J. HOLBOURN, CERTIFICATES ROYAL SANITARY INSTITUTE.

Inspector of Meat and other Foods:
A. J. E. SCOTT, CERTIFICATES ROYAL SANITARY INSTITUTE.

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S. MELLINGS	,,	,,	,,	CERTIFICATE ROYAL SANITARY INSTITUTE.
A. J. BROWNE	,,	,,	,,	CERTIFICATE ROYAL SANITARY INSTITUTE.
E. SHEEHY	,,	,,	,,	AND AMBULANCE DRIVER.

Clerk:
M. J. KELLEHER.

Caretaker Flat Holm Hospitals:
F. HARRIS.

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Cardiff Port Sanitary Authority.

31, LOUDOUN SQUARE,
CARDIFF,
March, 1922.

To the Chairman and Members of the Cardiff Port Sanitary Authority.

LADIES AND GENTLEMEN,

I have the honour to submit to you the Annual Report for the year 1921. In accordance with the need for economy at the present time, and with your expressed desire, the information it contains is set down with the greatest brevity consistent with the Ministry's requirements.

On 1st October, 1921, I took over the position of Medical Officer which Dr. Walford had held since 1888, and I desire to record my appreciation of the high level of efficiency to which his efforts have brought the Department and the valuable returns of work done from year to year, which he has preserved for future reference. I have also to thank Chief Inspector David Jenkins and his Staff for their willing co-operation. The valuable assistance which continues to be afforded by H.M. Collector of Customs, the Waterguard Superintendent and his Staff, the Dock Masters at Cardiff and Penarth and their Officers, and the Chief of the Cardiff Railway Company Police and his Staff, is greatly appreciated by all the Officers of this Department.

I have the honour to be,

Gentlemen,

Your obedient Servant,

RALPH M. F. PICKEN,
Medical Officer of Health.

TRAFFIC AT THE PORT.

The following table gives particulars of vessels and tonnage, foreign and coastwise, entering the Cardiff Port Sanitary District, kindly supplied to me by H.M. Collector of Customs.

TABLE I.

YEARS.	Number of Vessels.		Total No. of Vessels Foreign and Coastwise.	Tonnage.		Total Tonnage Foreign and Coastwise inwards.
	Foreign.	Coastwise.		Foreign.	Coastwise.	
Average 1901–10	2,741	8,982	11,723	3,206,425	3,072,287	6,278,712
1911–20	3,433	6,823	10,256	3,674,015	3,272,709	6,946,724
1921	1,656	5,042	6,698	2,066,973	1,689,474	3,756,447

The following table shews the amount of imports and exports for the Port of Cardiff. (Figures do not include Barry).

TABLE II.

Years.	Imports (Tons and Loads)	Exports (Tons)	Total Imports & Exports (Tons)
Average 1911–20	1,879,138	12,372,330	14,251,468
1921	1,043,000	5,912,485	6,955,485

Table shewing the number and nationalities of the vessels inspected on arrival during the year ended December 31st, 1921.

TABLE III.

NATIONALITY.	STEAM.	SAIL.	MOTOR.	TOTAL.
American	21	...	...	21
Belgian	14	...	...	14
Brazilian	7	...	...	7
British...	3,266	521	195	3,982
Chilian	1	...	...	1
Danish	45	3	3	51
Dutch	38	...	...	38
Esthonian	1	1	...	2
Finnish	2	8	...	10
French	253	136	10	399
German	6	1	3	10
Greek	55	2	...	57
Italian	94	1	...	95
Japanese	28	...	...	28
Moroccan	3	...	...	3
Norwegian	144	4	4	152
Portuguese	22	3	...	25
Roumanian	2	...	...	2
Spanish	87	...	...	87
Swedish	47	1	1	49
Uruguayan	2	...	...	2
Totals	4,138	681	216	5,035

The following Table shews the amount of Shipping entering the Port during the year :—

TABLE IV.

		Number	Tonnage	Number Inspected		Number reported defective	Number of Orders Issued.
				Medical Officer of Health	Inspector of Nuisances		
From Foreign	Steamers ...	...	...	82	1,407	280	280
	Sailing	...	...	6	154	20	20
	Motor	...	...	...	19	3	3
	Fishing	...	...	...	11	...	...
	Total from Foreign	1,656	2,066,973	88	1,591	303	303
Coastwise	Steamers ...	...	...	20	2,388	136	136
	Sailing	...	...	4	527	10	10
	Motor	...	...	...	196	3	3
	Fishing	...	...	...	333	1	1
	Total Coastwise ...	5,042	1,689,474	24	3,444	159	150
Total Foreign and Coastwise ...		6,698	3,756,447	112	5,035	453	453

The following Table shows the Chief Ports or Places with which trade is carried on, and the principal Imports and Exports.

TABLE V.

Port or Place.	Imports	Port or Place.	Exports.
Spain ...	Iron Ore ; Pitwood ; Wine ; Onions and Fruit.	All countries and Local Ports.	Coal. Coke. Patent Fuel. Flour. Iron and Steel Rails and Ironwork. General Merchandise.
France ...	Pitwood ; Potatoes ; Wine ; Apples ; Onions and Canned Goods		
Canada ...	Grain ; Flour ; Fruit ; Dairy Produce ; Canned Goods ; Sugar and Timber.		
U.S. America ...	Grain ; Flour ; Fruit ; Dairy Produce and Canned Goods.		
Australia ...	Grain ; Frozen Meat ; Canned Goods and Dairy Produce.		
Ireland ...	Grain ; Pitwood ; Potatoes ; Canned Goods ; Stout ; Dairy Produce and Burnt Ore.		
Local Ports ...	Grain ; Flour ; Canned Goods ; Dairy Produce ; Burnt Ore and Pitch.		
North Africa ...	Iron Ore		
Baltic Ports ...	Timber		
Portugal ...	Pitwood Fruit and Wine.		
River Plate ...	Frozen Meat and Grain		

INFECTIOUS DISEASES.

The following Table shews the number of cases of notifiable diseases dealt with since 1911.

TABLE VI.

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	Total
Continued Fever	...	...	...	...	...	...	...	...	...	2	2	4
Diphtheria ...	...	1	3	...	3	2	7	...	7	4	...	27
Dysentery ...	...	...	...	...	...	...	...	...	1	2	4	7
Erysipelas ...	...	4	1	1	1	3	8	...	3	5	1	27
Malarial Fever ...	...	...	...	...	...	...	...	...	8	14	21	43
Measles ...	1	2	...	...	...	4	3	2	1	...	...	13
Pneumonia, Influenzal	...	...	...	...	...	...	...	...	14	5	3	22
,, Primary	...	...	...	...	...	...	...	...	6	21	8	35
Relapsing Fever	...	...	...	...	...	...	...	...	...	1	...	1
Scarlet Fever ...	2	...	...	...	...	1	1	...	4	...	...	8
Small Pox ...	1	1	2	...	1	...	...	...	...	1	...	6
Tuberculosis ...	32	27	20	14	7	22	27	12	15	14	22	212
Typhoid Fever ...	8	7	9	13	13	7	10	26	19	8	3	123
Totals ...	44	42	35	28	25	39	56	40	78	77	64	528

PREVENTION AND TREATMENT OF VENEREAL DISEASE.

Regulations relating to this disease were made by the Local Government Board on the 12th July, 1916, enabling the Local Authority to make arrangements with the Managers of Hospitals approved by the Board for the treatment of Venereal Disease.

A further letter was issued with respect to the treatment of sailors coming within the jurisdiction of Port Sanitary Authorities.

In accordance with a scheme submitted to the Board by the Local Authority, arrangements were made with the Managers of the Royal Hamadryad Seamen's Hospital for the out-patient and in-patient treatment of Venereal Disease amongst sailors.

The following Table shews the number of cases dealt with at the above Clinic since the commencement of this work, April 16th, 1917.

TABLE VII.

Years.	No. of persons attending for the first time.	Total attendances	Aggregate No. of in-patient days.
(from 16th April) 1917	572	7,191	2,692
1918	790	4,361	5,297
1919	972	17,040	6,281
1920	1,234	12,872	4,679
1921	868	12,242	3,352
	4,436	53,706	22,301

SCABIES.—During the year 81 cases of scabies amongst seamen were treated at the Corporation Cleansing and Disinfecting Station.

VERMINOUS PERSONS.—No cases came to the knowledge of the Department during the year in which it was necessary to carry out disinfection and cleansing for eradication of vermin.

Table shewing details of cases of disease dealt with during the year as having occurred on board during the voyage or during the vessel's stay at this port.

TABLE VIII.

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
Jan. 14	s.s. "Ariadne-Irene" (British)	Savannah *via* London (Dysentery)	A sailor removed to the Seamen's Hospital, where he died the following day. Effects disinfected.
,, 14	s.s. "Mango" ... (British)	... ... (Malarial Fever Recurrent and Typhoid Fever)	A sailor admitted to the Seamen's Hospital from Sailors' Home. Rooms at Sailors' Home disinfected.
,, 17	s.s. "Java" ... (Italian)	Catania ... ... (Dysentery)	An Officer removed to hospital. His berth and effects disinfected.
,, 22	s.s. "Arnold" ... (Swedish)	Gothenborg ... ... (Gastric Catarrh)	A sailor reported sick on arrival. Medically treated on board.
,, 24	s.s. "Loyal Devonian" ... (British)	Bordeaux ... ... (Tuberculosis)	An Engineer removed to the Seamen's Hospital. His berth and effects disinfected.
,, 24	s.s. "South Pole" ... (American)	... ... (Pneumonia Influenzal)	A fireman admitted to the Seamen's Hospital from Barry.
,, 26	s.s. "Arcturus" ... (French)	Brest ... ... (Rheumatism)	A fireman removed to the Seamen's Hospital.
Feb. 1	s.s. "Huddersfield" (British)	Lagos to Liverpool ... (Malarial Fever Recurrent)	A seaman admitted to the Seamen's Hospital from Barry.
Feb. 1	... ...	... ... (Malarial Fever Recurrent)	A fireman admitted to the Seamen's Hospital from a boarding house.
,, 13	s.s. "North Britain" ... (British)	Hamburg ... ... (Pneumonia, Primary)	A sailor admitted to the Seamen's Hospital from a boarding house.
,, 15	s.s. "Tasmania Maru" ... (Japanese)	Moss ... ... (Malarial Fever, Recurrent)	A sailor and a storekeeper admitted to the Seamen's Hospital from Barry.
Mar. 3	s.s. "Koursk" ... (British)	Newport News to ... Immingham (Malarial Fever Recurrent)	A sailor admitted to the Seamen's Hospital from a boarding house.
,, 9	... ...	... ... (Typhoid Fever)	A sailor admitted to the Seamen's Hospital from a boarding house. His effects disinfected.
,, 11	... ...	... ... (Malarial Fever, Recurrent)	An assistant steward admitted to Seamen's Hospital.
,, 12	s.f. "Fuji" ... (British)	Sea ... . (Hernia)	The mate suffering from Hernia. He was removed to Seamen's Hospital.

TABLE VIII.—*continued.*

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
Mar. 17	s.s. "Navarra" ... (Norwegian)	... ... (Malarial Fever, Recurrent)	A sailor admitted to the Seamen's Hospital from Barry.
,, 17	s.s. "Baron Kelvin" (British)	... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from Barry.
,, 17	s.s. "City of Colombo" (British)	... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital. His effects disinfected.
,, 21	s.s. "Greldon" ... (British)	New York & Hull ... (Intestinal Colic & Heart Failure)	A fireman died at sea and body brought to Cardiff for burial.
,, 31	s.s. "L'Erdre" ... (French)	Bordeaux ... ... (Pneumonia Primary)	The cook was removed to the Seamen's Hospital. His berth disinfected.
Apl. 7	s.s. "Colmar" ... (French)	St. Nazaire ... ... (Typhoid Fever)	A sailor was admitted to the Seamen's Hospital. His effects disinfected.
,, 11	s.s. "Macon" ... (French)	St. Brieux ... ... (Bronchitis)	A sailor reported ill and was being medically treated on board.
,, 18	s.s. "St. Lawrence River" (British)	... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.
,, 25	... ...	... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.
,, 26	s.s. "Begona No. 1" (Spanish)	Ghent ... ... (Tonsilitis)	A carpenter ill and being medically treated on board.
,, 27	... ...	... ... (Malarial Fever, Recurrent)	A sailor being medically treated at his home.
May 2	s.s. "Whitegate" ... (British)	London ... ... (Tuberculosis)	A wireless operator admitted into Seamen's Hospital.
,, 5	s.s. "Surville" ... (French)	... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from Barry.
,, 17	H.M.S. "Delhi" ...	... ... (Mumps)	The Engineer Commander was being medically treated at his home at Cardiff
,, 27	s.s. "Hendaye" ... (French)	Nantes ... ... (Malarial Fever, Recurrent)	A fireman admitted to the Seamen's Hospital.
,, 30	s.s. "Mogador" ... (French)	Port Talbot ... (Pneumonia, Influenzal)	First Officer removed to the Seamen's Hospital.
June 13	s.s. "Fellside" ... (British)	Boulogne ... ... Malarial Fever Recurrent)	A sailor admitted to the Seamen's Hospital.

TABLE VIII.—*continued.*

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
June 13	... ...	... ... (Malarial Fever, Recurrent)	A sailor admitted to the Seamen's Hospital from a boarding house.
„ 20	s.s. "Pinot" ... (British)	Southampton ... (Malarial Fever, Recurrent)	A steward admitted to the Seamen's Hospital from a boarding house.
„ 20	s.s. "Gantock Rock" (Norwegian)	Beaumont, Texas to Southampton (Malarial Fever, Recurrent)	A boatswain admitted to the Seamen's Hospital from a boarding house.
„ 24	s.s. "Barmoor" ... (British)	Algiers to Barry ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from a boarding house.
„ 24	Yacht "Kate" ... (British)	... ... (Tuberculosis)	A member of the family admitted to Glan Ely Tuberculosis Hospital.
„ 27	... ...	... ... (Pneumonia, Primary)	A fireman admitted to the Seamen's Hospital from a boarding house.
„ 6	s.s. "Aschenburg" (British)	Hamburg to Blyth (Continued Fever and Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.
„ 6	... ...	... ... (Continued Fever)	A sailor admitted to the Seamen's Hospital from a boarding house.
„ 6	... ...	... ... (Tuberculosis)	A cook admitted to the Seamen's Hospital from a boarding house.
„ 6	s.s. "Noelle" ... (British)	Buenos Aires to London (Malarial Fever, Recurrent)	A fireman admitted to the Seamen's Hospital from a boarding house.
July 6	s.s. "Madame Lundy" ... (British)	Wexford to Newport (Heart Disease)	A sailor admitted to the Seamen's Hospital from a boarding house.
„ 12	s.s. "Agapi" ... (Greek)	... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from Barry. Effects disinfected.
„ 12	s.s. "Goldenfels" ... (British)	... ... (Malarial Fever)	A fireman admitted to the Seamen's Hospital from the Sailors' Home.
„ 13	s.s. "Heatherlea" (British)	... ... (Tuberculosis)	First Mate admitted to the Seamen's Hospital from a boarding house. His effects disinfected.
„ 29	s.s. "Winsum" ... (Dutch)	Sydney, C.B. ... (Malarial Fever & Heart Disease)	A sailor and a fireman were being medically treated on board.
„ 29	s.s. "Lord Byron" (British)	Braila and Algiers *via* Limerick (Typhoid Fever)	A fireman sent to hospital at Limerick. All well on arrival here.
Aug. 12	... ...	... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.

TABLE VIII.—*continued.*

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
Aug. 14	s.s. "Cahiracon" ... (British)	South Shields *via* Bordeaux (Heart Disease)	Second Officer died on passage to Bordeaux.
,, 19	s.s. "Eleni-Stathatos" ... (Greek)	Amsterdam ... (Rheumatic Fever)	A fireman removed to the Seamen's Hospital.
,, 20	s.s. "Alkaid" ... (Dutch)	Rosario, St. Vincent, Las Palmas and Sligo (Plague)	A sailor and a fireman removed to hospital at Sligo. Disinfection carried out at that port. Rat destruction carried out at this port.
,, 25	s.s. "Beaumanoir" (French)	Antwerp ... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital.
,, 29	s.s. "Manipur" ... (British)	Hamburg ... ... (Pneumonia, Primary)	A native fireman died whilst on passage to Cardiff, and body brought on shore for burial.
,, 30	s.s. "Kanabec" ... (British)	Gibraltar ... ... (Pneumonia, Primary)	A fireman taken to hospital from Barry Roads, All well on arrival here.
,, 30	... ...	... ... (Malarial Fever, Recurrent)	A fireman admitted to the Seamen's Hospital from a boarding house.
Sep. 1	s.s. "Ovre" ... (Norwegian)	Antwerp ... ... (Pneumonia, Primary, and Tuberculosis)	A sailor removed to the Seamen's Hospital.
,, 5	s.s. "Admiral Cochrane" ... (British)	Bremerhaven ... (Abscess in Stomach)	A fireman removed to Hospital at Bremerhaven.
,, 7	s.s. "Polly Anne" (British)	At Liverpool ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.
,, 13	s.s. "Penmount" ... (British)	Seccondee *via* Las Palmas and Hamburg (Malarial Fever)	Second cook sent to hospital at Seccondee and the First Officer sent to hospital at Las Palmas.
,, 15	... ...	... ... (Tuberculosis)	A fireman admitted to the Seamen's Hospital from a boarding house.
,, 17	s.s. "Labor" ... (French)	Rouen ... ... (Influenzal Meningitis)	The wireless operator removed to the Seamen's Hospital. His berth and effects disinfected.
,, 19	s.s. "Moerdyk" ... (Dutch)	Rotterdam ... ... (Malarial Fever, Recurrent)	The Third Engineer medically treated on board.
,, 29	s.s. "Alto" ... (British)	... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from Barry.
Oct. 1	s.s. "Augusto Halenke" ... (British)	Rotterdam ... ... (Tuberculosis)	The First Officer admitted to the Seamen's Hospital. His berth and effects disinfected.

TABLE VIII.—*continued*

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
Oct. 16	s.s. "Timavo" ... (Italian)	Naples ... ... (Cold)	Medically treated on board.
„ 24	s.s. "Ambatielos" (Greek)	Oran ... ... (Malarial Fever, Recurrent)	A sailor admitted to the Seamen's Hospital.
„ 29	s.s. "Depute ... Josselin de Rohan" (French)	La Rochelle ... (Pneumonia, Primary)	A fireman removed to the Seamen's Hospital. His effects disinfected.
„ 31	... ...	... ... (Chicken Pox)	A fireman admitted to the Seamen's Hospital from a boarding house.
Nov. 5	s.s. "W. I. Radcliffe" (British)	Hamburg to Barry Dock (Malarial Fever, Recurrent)	A fireman admitted to the Seamen's Hospital from a boarding house.
„ 9	s.s. "Bellas" ... (Portuguese)	Lisbon *via* Corunna (Pneumonia, Influenzal)	A fireman removed to the Seamen's Hospital. Berth and effects disinfected.
„ 10	s.s. "Severn" ... (British)	Liverpool ... ... (Broncho-Pneumonia)	A sailor removed to the Seamen's Hospital.
„ 16	s.s. "Tasmania" ... (British)	Falmouth ... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital. Forecastle and effects disinfected.
„ 23	s.s. "Kanabec" ... (British)	... ... (Pneumonia, Primary)	A fireman admitted to the Seamen's Hospital from Barry.
„ 25	... ...	... ... (Broncho Pneumonia)	A sailor admitted to the Seamen's Hospital from the Sailors' Home.
„ 25	s.s. "Creek Fisher" (British)	Manchester ... ... (Influenza)	A sailor removed to the Seamen's Hospital.
„ 29	... ...	... ... (Pneumonia, Primary)	A fireman admitted to the Seamen's Hospital from a boarding house.
Dec. 4	... ...	... ... (Erysipelas)	A sailor admitted to the Seamen's Hospital from the Sailor's Home, and subsequently sent to the City Lodge Hospital for treatment.
„ 5	s.s. "Newtonia" (British)	... ... (Pneumonia, Primary)	First Officer admitted to the Seamen's Hospital.
„ 5	s.s. "Tempus" ... (British)	Sierra Leone *via* ... Liverpool (Malarial Fever)	Two members of crew left in hopsital at Liverpool.
„ 5	s.s. "Guy" ... (Swedish)	Umea ... ... (Heart Trouble)	The Master being treated on board.

TABLE VIII.—*continued.*

DATE 1921	NAME OF SHIP AND NATIONALITY.	WHERE FROM AND NATURE OF SICKNESS.	GENERAL PARTICULARS.
Dec. 6	s.s. "Lady Astley" (British)	London ... ... (Dysentery)	A fireman admitted to the Seamen's Hospital from Barry.
,, 7	s.s. "Molton" ... (British)	Genoa ... ... (Cold)	A fireman removed to the Seamen's Hospital.
,, 10	s.s. "Ragnhild" ... (Danish)	Liverpool ... .. (Lung Trouble)	The Steward went to his home in Denmark.
,, 16	s.s. "Geervliet" ... (Dutch)	Rouen ... ... (Cold)	Treated on board.
,, 19	... ...	... ... (Tuberculosis)	A sailor admitted to the Seamen's Hospital from a boarding house.
,, 29	s.s. "Lake City" ... (British)	... ... (Dysentery)	A fireman admitted to the Seamen's Hospital from a boarding house.

CHOLERA, PLAGUE AND YELLOW FEVER.

A strict examination for cases of Cholera, Plague and Yellow Fever and for evidence of rat infestation, has been made of all vessels on arrival at H.M. Customs Boarding Stations during the day and night tides, whether directly or indirectly from Infected or Suspected Ports.

No vessels required to be dealt with in accordance with the Regulations of the Local Government Board of the 9th September, 1907.

HOSPITAL ACCOMMODATION.—The Hospital at Flat Holm Island where accommodation is provided for sixteen patients suffering from Cholera, Yellow Fever or Plague, and for staff, administration, cremation, etc. has not been in use during the past year. It has, however, been kept in good order and readiness for use in any emergency.

RATS AND MICE (DESTRUCTION) ACT, 1919.

Continuous inspection and measures were taken on and around the docks, premises, lands, etc. during the year, under the Rats and Mice (Destruction) Act, 1919, and as the result of baiting with poisons 4,691 rats and mice were found dead, over and above the 6,016 caught by trapping.

Fifteen notices were served on Masters of vessels under the above Act.

During the year the Rat-catchers were engaged on board 79 vessels, and on 51 occasions in warehouses at the docks, and the total number of rats caught and subsequently destroyed amounted to 6,016.

PLAGUE PRECAUTIONS. MEASURES AGAINST RATS.

TABLE IX.

Names of Vessels arriving in the Port Sanitary District.			Vessels subjected to measures of Rat destruction.						
			Name of Vessels.				Measures employed.	Results.	
Plague Infected.	Plague Suspected.	From Infected Ports.	Plague Infected.	Plague Suspected.	From Infected Ports.	Number of other Vessels.	Trapping, Poisoning, Fumigating, etc.	Number of Rats killed.	Remarks.
				s.s. "Alkaid"	...	...	Trapping ...	1	Submitted for bacteriological examination. Result—Negative.
		(Oct. 21st)							
		s.s. "Emanual" (1)							
						78	Trapping	6,015	
		(Oct. 24th)							
		s.s. "Ambatielos" (2)							

(1) Did not remain in port long enough for measures against rats to be taken.

(2) New Ship. No evidence of rats.

RATS CAUGHT AND DESTROYED IN 1921.

TABLE X.

Number of	Jan.	Feb.	Mar.	April	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.	Total for year.
Black Rats	914	569	178	1,368	202	461	309	786	505	276	255	181	6,004
Brown Rats	2	...	...	2	...	2	...	1	...	5	...	...	12
Rats examined ...	21	24	21	30	11	22	14	15	16	20	19	9	222
Rats infected with Plague	...	...	...	...	...	...	...	...	...	...	...	...	...
Rats not infected ...	21	24	21	30	11	22	14	15	16	20	19	9	222

MEDICAL INSPECTION OF ALIENS—PORT SANITARY DISTRICT OF CARDIFF.

ANNUAL RETURN BY THE MEDICAL INSPECTOR OF ALIENS for Year ended 31st December, 1921.

Aliens arriving at the port*		No. of temporary visitors, *i.e.* Aliens whose stay in this Country will not exceed three months.			No. of Aliens who intend to settle permanently or remain in this Country for more than three months.		
Total Number	No. subjected to medical †Inspection.	Total Number	No. subjected to medical ‡examination	No. of Certificates issued.	Total Number	No. subjected to medical ‡examination	No. of Certificates issued.
93	2	45	...	...	3	2	1

Aliens in Transit.			Transmigrants.	
Total Number	No. subjected to medical ‡examination	No. of Certificates issued.	Total Number	No. subjected to medical ‡examination
45	...	...	...	...

* Number to include all aliens in transit and transmigrants, but not alien seamen.

† The term "INSPECTION" relates to the preliminary inspection of aliens as they pass before the Medical Inspector.

‡ The term "MEDICAL EXAMINATION" relates to detailed medical examination.

Particulars Relating to Detailed Medical Examination of Aliens.

	No.
Aliens who were subjected to detailed medical examination and were not certified by Medical Inspector	1
Number of each of the following certificates issued by the Medical Inspector of Aliens :—	
(*a*) Certificate that an alien is a lunatic, idiot, or mentally deficient	Nil.
(*b*) Certificate that, for medical reasons, it is undesirable that an alien should be permitted to land	
(*c*) Certificate that an alien is suffering from some disease, defect or deformity, which may interfere with his capacity to support himself or his dependants ...	
(*d*) Certificate that an alien is suffering from one of the acute infectious diseases ...	
(*e*) Certificate that for the purposes of an adequate medical examination, it is necessary for the alien to land in order that he may be examined ashore	

Transmigrants.

(See Paragraphs 2 and 3 of the Additional Instructions to Medical Inspectors issued by the Ministry of Health in April, 1921).

Number of certificates of the cleansing of verminous transmigrants given by the Medical Inspector of Aliens to the Immigration Officer	Nil
Number of medical certificates in respect of transmigrants suffering from trachoma, favus, etc., given to the Immigration Officer	

Particulars Relating to Alien Traffic.

Total number of passenger vessels carrying aliens which arrived during the year ...	Nil
Number dealt with by Medical Inspector of Aliens	Nil
Total number of cargo vessels carrying alien passengers which arrived during the year ...	34
Number dealt with by Medical Inspector of Aliens	2
Any other vessels in connection with which the Medical Inspector has had to take action in regard to Aliens. Give full particulars.	

(*Signed*) H. SHEASBY, M.B., Ch.B., D.P.H.,
Medical Inspector of Aliens.

INSPECTION OF SHIPPING FOR DEFECTS OF SANITATION.

During the year, 5,035 vessels were inspected on arrival. In addition, 2,696 re-inspections were made of ships in dock, making a total of 7,731.

Sixty-five written notices were served and 490 verbal orders given to Masters of vessels, in connection with nuisances and sanitary defects on board ships.

One hundred and twenty-two samples of drinking water from vessels entering this Port were taken and submitted to the Bacteriologist at the Cardiff and County Public Health Laboratory for examination. Ninety were found to be of good or moderate quality and thirty-two of doubtful purity or contaminated.

Thirty-two notices were served on Masters of vessels having doubtful or contaminated water on board for drinking and domestic purposes, as the result of these examinations. All tanks containing impure water were emptied and cleansed, and a fresh supply taken on board.

Articles of clothing belonging to seamen, to the number of 1,589, were disinfected by the Port Sanitary Authority, and 790 dirty or infected beds and other articles were destroyed.

The lighters engaged in carrying grain, patent fuel, etc. in the Docks, have been periodically examined, cleansed, disinfected and repaired during the year.

The fishing boats, also the fish wharves, have been regularly visited, cleansed and disinfected.

BACTERIOLOGICAL EXAMINATION OF WATER SUPPLIES.

The following Table gives the results of examination by Mr. J. H. Sugden, M.Sc., F.I.C., at the Cardiff and County Public Health Laboratory, of one hundred and twenty-two samples of drinking water from vessels taking water at this port during the year ended December 31st, 1921.

TABLE XI.

Number of Samples	Satisfactory.	Moderate Purity	Doubtful Purity.	Contaminated.
122	72	18	17	15

The following Table shews the number and nationality of the vessels on which structural defects and other nuisances were detected :—

TABLE XII.

NATIONALITY.	Number of Ships.	Defective side ports and pilms in forecastles and berths	Defective water closets.	Defective bulkheads and floors in forecastles and berths	Defective and leaky hawse pipes and cable casings in crew spaces	Defective or unlined iron decks over banks in forecastles and berths	Defective stores, funnels and flanges in crew spaces.	Defective ventilation to forecastles and berths	Defective ventilation to water closets.	Dirty water casks and tanks.	Defective water casks and tanks.	Defective lamps in crew spaces	Defective lighting to forecastles and berths	Defective cowls and ventilators to forecastles and berths	Defective drainage to crew spaces	Leaky decks over forecastles and berths	Foul bilges and peaks.	Ship's stores kept in crew spaces.	Foul accumulations.	Water closets and paint lockers adjoining and ventilating into crew spaces.	Want of wooden floors in crew spaces	Dirty forecastles and berths.	Dirty water closets.	CASES.	REMEDIED.
American ...	4	...	...	...	...	...	...	4	...	...	...	...	...	1	...	1	...	...	4	...	...	6	...	16	16
Belgian ...	2	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...
British ...	296	124	17	6	8	7	28	8	15	10	2	...	7	4	23	16	3	2	14	24	...	480	18	816	784
Danish ...	8	7	...	...	...	...	...	2	...	...	...	...	...	...	2	...	...	...	...	2	...	1	...	14	12
Dutch ...	7	...	...	1	...	...	3	...	2	...	...	...	...	...	3	1	1	...	2	4	1	...	...	18	14
Finnish ...	5	...	1	...	...	...	...	7	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14	13
French ...	30	4	2	...	1	2	2	20	11	...	1	...	...	...	1	2	...	...	3	1	...	21	1	72	54
German ...	3	...	...	...	...	...	...	5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	8
Greek ...	11	...	...	1	...	...	2	10	4	...	...	...	3	...	3	2	...	...	...	3	...	10	2	40	10
Italian ...	10	...	...	...	...	...	...	10	8	...	...	...	...	...	1	...	...	...	3	1	...	4	1	28	11
Japanese ...	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	5	5	13	13
Moroccan ...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Norwegian ...	29	2	...	3	...	...	1	26	11	...	...	...	2	4	1	2	...	...	1	1	...	10	4	68	62
Portuguese ...	6	...	...	...	...	...	...	6	...	...	...	...	...	...	2	...	...	...	...	2	...	2	3	15	12
Roumanian ..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	2
Spanish ...	23	10	3	1	1	...	...	19	7	...	...	...	...	...	4	1	...	1	...	4	...	14	...	65	62
Swedish ...	10	1	...	...	...	...	...	5	4	...	...	...	...	5	2	...	...	...	1	1	...	...	...	19	9
Uruguayan ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	4	...	5	5
Totals ...	453	148	23	12	10	9	36	124	72	10	3	...	12	15	42	25	4	3	31	43	1	559	34	1216	1088

The foregoing tables afford evidence of useful work performed by the Officers of the Port Sanitary Authority, and show that the Inspection of Shipping in the Port has resulted in a great improvement in the sanitary condition of the floating population.

The chief defects found on board ships were :—Defective side ports and prisms, bulkheads, floors, hawse pipes and cable casings, defective stoves, funnels and flanges, ventilator cowls and ventilation, lighting and drainage, leaky decks, defective or unlined iron decks over bunks, causing damp beds, etc., defective lamps, water tanks and casks, also defective water closets.

Very little difficulty has been experienced in obtaining compliance with the requirements of the Inspectors.

FOOD INSPECTION.

The Inspection of Food is carried out under powers afforded by Regulations issued by the Local Government Board (now the Ministry of Health) in terms of The Public Health (Regulations as to Food) Act, 1907.

The following table gives particulars of food dealt with during the year ended December 31st, 1921, under the Unsound Food and Foreign Meat Regulations.

TABLE XIII.

DESCRIPTION OF ARTICLES DESTROYED OR OTHERWISE DEALT WITH.	TONS	CWTS.	LBS.
Apples (Raw)	...	4	56
Apricots (Canned)	...	...	35½
Beef (Canned)	...	3	18
Cheese	...	...	14
Cobnuts	...	3	17
Grapes...	1	19	16
Melons...	...	19	0
Milk, Evaporated (Canned)	...	9	69
Oranges	20	3	0
Pomegranates	6	1	0
Potatoes	3	13	0
Raisins	...	8	48
Tomatoes (Canned)	...	1	24
Tongue, Lunch (Canned)	...	...	4½
TOTAL	34	5	78

Also 30 tons potatoes ex. s.s. "Treleigh," Public Health Act, 1875.

DISEASES OF ANIMALS ACTS, 1894 TO 1914.

(And the Orders of the Ministry of Agriculture and Fisheries made thereunder).

THE CANINE ANIMALS ORDER, 1909, AND THE IMPORTATION OF DOGS ORDER, 1914.

During the year ended December 31st, 1921, 517 dogs were imported from foreign countries, either directly or indirectly.

In each case a copy of the Order was supplied to the Master or the Officer in charge of the vessel on arrival, by an Officer of the Local Authority.

These ships were visited regularly during their stay in port to see that the requirements of the Order were carried out.

No proceedings were taken under these Orders during the year.

FOREIGN ANIMALS ORDER, 1910.

During the year, forty-five vessels arrived at this Port with the following animals on board from scheduled countries, either directly or indirectly, viz :—Cattle 17 ; Sheep 82 ; Goats 1 ; Swine 41 ; Total 141. Also 1 goat under the Animals (Landing from Ireland) Order, 1914.

These ships were visited regularly to see that the Regulations of the Ministry of Agriculture and Fisheries were carried out.

When any of the ships left for another Port in Great Britain, the Authorities at those ports were notified.

Proceedings against Masters for infringements of this Order were taken in 37 instances and fines amounting to £35 10s. 6d. were imposed.

ANNUAL REPORT OF D. JENKINS (CANAL BOAT INSPECTOR) FOR THE YEAR 1921.

Section 3 of the Canal Boats Act of 1884, provides that it shall be the duty of every Registration or Sanitary Authority within whose district any Canal or part of a Canal is situate, to enforce within such district the Provisions of the Principal Act, and this Act, and any Regulations made thereunder by the Ministry of Health, and every such Authority shall within twenty-one days after the 31st day of December in every year, make a report to the Ministry of Health as to the execution of the Principal Act, and this Act, and of the Regulations made thereunder, as aforesaid, and as to steps taken by such Authority during the year to give effect to the provisions of the said Acts and Regulations.

(1) Canal Boats inspected during the year 1921	102
Condition of Boats (Good 74, Fair 7)	81
Infringements	21
Occupants of Boats	All Males
Women and Children sleeping in Canal Boats	Nil.

(2) Infringements :—

(*a*) Registration	Nil.
(*b*) Notification change of Muster ...	Nil.
(*c*) Certificates	Nil.
(*d*) Marking	1
(*e*) Overcrowding	Nil
(*f*) Separation of Sexes	Nil.
(*g*) Cleanliness	5
(*h*) Painting	8
(*i*) Water Vessels	Nil.
(*j*) Ventilation	Nil.
(*k*) Removal of Bilge Water	1
(*l*) Notification of Infectious Diseases	Nil.
(*m*) Admittance of Inspector	Nil.
(*n*) Defective Stoves	Nil.
(*o*) Roofs leaking	4
(*p*) Boats leaking	2
(3) Legal proceedings taken in respect of infringements	Nil.
(4) Any other steps taken to secure compliance with the Acts and Regulations ? Yes. Verbal and Written Notices	
(5) Detention of boats for cleansing and disinfecting	Nil.
(6) Number of boats on Register ...	14
(7) Number of boats registered during the year 1921	
*(*a*) Motor Propelled Boats ...	Nil.
(*b*) Other boats rendered necessary by alterations and change of owners	Nil.
(8) Removal from Register	Nil.
(9) Number of boats believed to be in use or serviceable.	
(*a*) Motor Propelled Boats ...	1
(*b*) Not Propelled by Motor ...	13
(10) Number of boats that cannot be traced	Nil.
(11) Boats with accommodation for two males	13
(12) Boats with accommodation for three males	1

* This boat has not been in use since the outbreak of war.

The sanitary condition of the boats is on the whole satisfactory.